

## Scottish Water – Glencorse water treatment works

### Fascinating Facts

The pipes from the reservoirs in the borders to the Water Treatment Works (WTW) are around 40 kilometres long. Then from the WTW to Edinburgh there are another 15km of pipes. These pipes are 1.2 metres in diameter and are made from a type of plastic called polyethylene.

Producing the pipes at the mobile pipe production plant meant a saving of more than a million lorry miles.

Up to 175 million litres of clean fresh water will flow out of the Water Treatment Works and through the pipes each day. That's enough for 2 million baths!

The works will supply up to 450,000 people in Edinburgh with water.

During the construction of the WTW more than 3200 miles of steel reinforcing bar were used. That's enough to stretch from Edinburgh to Montreal, Canada.

The Clear Water Tank can hold 90 million litres (45 million in each half) and has 490 columns holding up the roof. It's 7 metres tall and has a surface area of two large football pitches. The tank had to have clever drainage installed underneath to draw away any surface water that might gather and cause the tank to float.

The turbine will generate a third of the power needed to run the works by harnessing the power of the water coming from the reservoirs 40km away in the Scottish Borders. The rest of the power will be supplied from the National Grid.

The Water Treatment Building is roofed with Scotland's largest green roof.

In this building one of the water treatment processes is filtration. The water is filtered through a metre of sand and anthracite in order to capture any particles in the water. The water is then dosed with a small amount of chlorine (1 part per million) to kill the bacteria.